

## Doç. Dr. ÖMER ÜNSAL

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), Türkiye 2012 - 2016

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Lisans, Anadolu Üniversitesi, İktisat Fakültesi, İktisat Bölümü, Türkiye 2008 - 2012

Lisans, Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2006 - 2010

### Yaptığı Tezler

Doktora, Lineer olmayan denklemlerin integrallenebilirliği, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), 2016

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### Araştırma Alanları

Temel Bilimler

### Akademik Unvanlar / Görevler

Doç. Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, MATEMATİK VE BİLGİSAYAR BİLİMLERİ BÖLÜMÜ, 2021 - Devam Ediyor

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### Verdiği Dersler

Doktora

İntegrallenebilirlik Teorisi, Doktora, 2017 - 2018

Diferensiyel Denklemlerin Kompleksiton Çözümleri, Doktora, 2017 - 2018

### **Yüksek Lisans**

Volterra-Fredholm İntegral Denklemleri, Yüksek Lisans, 2017 - 2018

Genelleştirilmiş Bilineer Türevler Teorisi, Yüksek Lisans, 2017 - 2018

### **Lisans**

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Diferensiyel Denklemler II, Lisans, 2017 - 2018

Diferensiyel Denklemler, Lisans, 2017 - 2018, 2016 - 2017

Biyomatematik, Lisans, 2017 - 2018

Fark Denklemleri I, Lisans, 2017 - 2018

Kısmi Türevli Diferensiyel Denklemlerin Sayısal Uygulamaları II, Lisans, 2017 - 2018, 2016 - 2017

Kompleks Analiz, Lisans, 2017 - 2018

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### **Yönetilen Tezler**

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### **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **An useful procedure for finding exact solutions to new form of (2+1)-dimensional B-type Kadomtsev-Petviashvili (BKP) equation**  
ÜNSAL Ö., Sakartepe Z.  
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- II. **Complexiton solutions for (3+1) dimensional KdV-type equation**  
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- III. **Multiple-Wave Solutions to Generalized Bilinear Equations in Terms of Hyperbolic and Trigonometric Solutions**  
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- IV. **Conservation laws and double reduction of (2+1) dimensional Calogero-Bogoyavlenskii-Schiff equation**  
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- VI. **A novel kind of AKNS integrable couplings and their Hamiltonian structures**  
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- VII. **Analytical approach for space-time fractional Klein-Gordon equation**  
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- VIII. **Exact solutions of nonlinear Schrodinger equation by using symbolic computation**  
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- IX. **Linear superposition principle of hyperbolic and trigonometric function solutions to generalized bilinear equations**  
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- X. **APPLICATIONS OF FRACTIONAL COMPLEX TRANSFORM AND  $(G'/G)$ -EXPANSION METHOD FOR TIME-FRACTIONAL DIFFERENTIAL EQUATIONS**  
 Bekir A., GÜNER Ö., ÜNSAL Ö., Mirzazadeh M.  
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- XI. **Two reliable methods for solving the time fractional Clannish Random Walker's Parabolic equation**  
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- XII. **Soliton Solutions, Backlund Transformation and Lax Pair for Coupled Burgers System via Bell Polynomials**  
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- XIII. **The First Integral Method for Exact Solutions of Nonlinear Fractional Differential Equations**  
 Bekir A., Guner O., ÜNSAL Ö.  
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- XIV. **Multiscale expansions in discrete world**  
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- XV. **New exact solutions for boussinesq type equations by using  $(G_0=G; 1=G)$  and  $(1=G_0)$ -expansion methods**  
 Demiray S., Unsal Ö., Bekir A.  
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- XVI. **Analytic treatment of nonlinear evolution equations using first integral method**  
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- XVII. **Periodic and solitary wave solutions of coupled nonlinear wave equations using the first integral method**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

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- IV. **Application of Extended Transformed Rational Function Method to Some (31) Dimensional Nonlinear Evolution Equations**  
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- VI. **Exact solutions of nonlinear wave equations using (G'/G,1/G)-expansion method**  
DEMİRAY S., ÜNSAL Ö., BEKİR A.  
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- VII. **Exact solutions of the Zoomeron and Klein Gordon Zakharov equations**  
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- II. **Complexiton and Interaction solutions for (21)-Dimensional Sawada-Kotera equation**  
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- V. **Modified Double Sub-Equation Method for Solving Nonlinear Evolution Equations**  
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- VI. **Multiple Scales Method for Higher Order KdV Equation**  
Çakır F., KOPARAN M., ÜNSAL Ö.

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- VII. **Construction of Exact Solutions to Partial Differential Equations with Trial Method**  
TAŞCAN GÜNEY F., Pir L. B., ÜNSAL Ö.  
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- VIII. **Extended Transformed Rational Function Method for Some (31)Dimensional Nonlinear Partial Differential Equations**  
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- IX. **Simplified Hirota Method for a Nonlinear Partial Differential Equation**  
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- X. **Soliton solution and other solutions to a nonlinear fractional differential equation**  
GÜNER Ö., ÜNSAL Ö., Bekir A., Kadem A.  
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- XI. **The (G'/G)-expansion method for the nonlinear time fractional differential equations**  
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- XII. **Singular 1-soliton solution of the nonlinear variable-coefficient diffusion reaction and mKdV equations**  
GÜNER Ö., Bekir A., ÜNSAL Ö., ÇEVİKEL A. C.  
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, Fransa, 4 - 08 Temmuz 2016, cilt.1798
- XIII. **Analytical approach for space time fractional Klein Gordon equation**  
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- XIV. **Complexiton solutions for some nonlinear partial differential equations**  
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- XV. **Exact solutions of some fractional differential equations by various expansion methods**  
Topsakal M., GÜNER Ö., Bekir A., ÜNSAL Ö.  
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- XVI. **Application of Binary Bell Polynomial Approach to a 2 1 Dimensional Nonlinear Evolution Equation**  
ÜNSAL Ö., TAŞCAN GÜNEY F., ÖZER M. N.  
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- XVII. **An efficient method for solving the nonlinear fractional Klein Gordon type equations**  
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- XVIII. **Çok Ölçekli Açılım Metodunun Diferensiyel Fark Denklemlerine Uygulamaları**  
ÜNSAL Ö., TAŞCAN GÜNEY F., ÖZER M. N.  
13. Matematik Sempozyumu, Türkiye, 15 - 17 Mayıs 2014
- XIX. **Lineer Olmayan Schrödinger Denkleminin Hareketli Dalga Çözümleri**  
KAPLAN M., ÜNSAL Ö., BEKİR A.  
8. Ankara Matematik Günleri, Ankara, Türkiye, 13 - 14 Haziran 2013, ss.50

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**XXI. Lineer Olmayan Oluşum Denklemlerinin  $(G'/G, 1/G)$  Metodu ile Hareketli Dalga Çözümleri**

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## **Metrikler**

Yayın: 47

Atf (WoS): 272

Atf (Scopus): 329

H-İndeks (WoS): 9

H-İndeks (Scopus): 10